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ABSTRACT OF THE DISCLOSURE

A heat controller has a composite material formed by combining a base material radiating a large amount of heat at a high-temperature phase with a phase-change substance having insulation properties at a high-temperature phase, having metallic properties at a low-temperature phase, radiating a small amount of heat at a low-temperature phase, and having a high reflectivity in the thermal infrared region at a low-temperature phase, so as to control the temperature of an object.